

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

DISINFECTION - GENERAL DILUTION GUIDELINES

Desired Parts Per Million (ppm)		1.0 ppm		5 ppm	
Strength of Chlorine Solution		5 %		5 %	
Water	50,000 Gallons	1	Gal	5	Gal
Water	25,000 Gallons	2	Qt	2.5	Gal
Water	10,000 Gallons	25.6	oz	1	Gal
Water	5,000 Gallons	12.8	oz	2	qt
Water	2,000 Gallons	5.12	oz	25.6	oz
Water	1,000 Gallons	2.56	oz	12.8	oz
Water	500 Gallons	1.28	oz	6.4	oz
Water	200 Gallons	0.51	oz	2.56	oz
Water	100 Gallons	0.26	oz	1.28	oz
Water	50 Gallons	0.13	oz	0.6	oz
Water	25 Gallons	0.06	oz	0.32	oz
Water	10 Gallons	0.03	oz	0.13	oz
Water	5 Gallons	0.01	oz (40 drops)	0.06	oz

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Southern Regional Office
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EMERGENCY DISINFECTION OF DRINKING WATER

1. Boiling – Boil water for 2-5 minutes. Avoid boiling water with high nitrate or nitrite levels as this concentrates the contaminants (in such situations, use the following chemical treatment process instead).

OR

2. Chemical Treatment - When boiling is not practical, use common household liquid bleach. Make sure bleach is free of perfumes and added scents.

Read the label for disinfection instructions.

If no instructions are on the label, then:

- A) Use 2 drops of liquid bleach per quart of water. Double the amount if water is turbid or colored.
- B) Mix thoroughly and allow water to stand for 30 minutes before using.
- C) Water should have a slight chlorine odor; if not, add one more drop of liquid bleach.

NOTE: To disinfect larger quantities of water, please see the chart located on the reverse side. During natural disasters, please follow the instructions of your local health authority, state agency or federal agency.